## OSZESSZ LEOSOO

FIGURE 1: Alignment of Delta-4 16:0 Desaturases From English Ivy (SEQ ID NO:2) and Coriander (gi 417819)

**EKSWQPQDYLPDPVSDGFEEQVRELRERAKEIPDDYFVVLVGDMITEEALPTYMSMLNRCDGIKDETGAEPSAWAMWTRAWTAEENRHGD** ENSWQPQDYLPDPTSDAFEDQVKEMRERAKDIPDEYFVVLVGDMITEEALPTYMSMLNRCDGIKDDTGAQPTSWATWTRAWTAEENRHGD SEQ ID 2 417819

LLNKYLYLSGRVDMRKIEKTIQYLIGSGMDIKSENSPYLGFIYTSFQERATFISHANTAKLAQHYGDKNLAHICGSIASDEKRHATAYTK LLNKYLYLSGRVDMRMIEKTIQYLIGSGMDTKTENCPYMGFIYTSFQERATFISHANTAKLAQHYGDKNLAQVCGNIASDEKRHATAYTK  $\sim$ SEQ ID 417819

IVEKLAEIDPDTTVIAFADMMRKKITMPAHLMYDGSDELLFKHFTAVAQRVGVYSALDYCDILEFLVDKWNVERLTGLSDEGRKAQEYVC IVEKLAEIDPDTTVIAFSDMMRKKIQMPAHAMYDGSDDMLFKHFTAVAQQIGVYSAWDYCDIIDFLVDKWNVAKMTGLSGEGRKAQEYVC <>→ SEQ ID 417819

SLAAKIRRVEEKVQGKEKK--AVLPVAFSWIFNRQIII ELGPKI RRVEEKVQGKEKKKKAEHPVSFSWI FNRELKI SEQ ID 2 417819

Figure 2: Alignment of Acyl Carrier Proteins From English Ivy (SEQ ID NOs:4 and 6) and Coriander (gi 5669599)

MASVTASSISFTSIASSLKQNQGLAKSSISLSVNGKSFRSLRLLSAPLRFRVSCAAKPATVDKVCEIVRKQLALPADSAVTGESKFAALG MAAFTASSVSFTPLSISLNQTKGFARGSVSIPAKAKSFGALTLRNAPLRFRVSCAAKPETVEKVCEIVKKQLALPPTTEVSGDSKFAALG MASVTASSISFTSIASSLKQNQGLAKSSISLSVNGKSFRSLRLLSAPLRFRVSCAAKPATVDKVCEIVRKQLALPLILQVTGESKFAALG SEQ ID 6 5669599 SEQ ID 4

ADSLDTVEIVMGLKEEFGIKRG-------SEQ ID 4 SEQ ID 6 5669599

ADSLDTVEIVMGLEEEFGISVEEESAQTIATVQDAADLIEKLVEKKE

ADSLDTVEIVMGLEEEFGISVEEESAQAIATVQDAADLIEKLCEKKE